

U.S. Department
of Homeland Security
**United States
Coast Guard**



Aviation Mission Specialist



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Aviation Mission Specialist

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Non-Resident Training
U.S. Coast Guard
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Elizabeth City, NC 27909-5003

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**QUESTIONS ABOUT THIS TEXT SHOULD BE
ADDRESSED TO THE
AIRCREW SUBJECT MATTER SPECIALIST**

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Aviation Mission Specialist

Reference

This pamphlet contains original material developed at the U.S. Coast Guard Aviation Technical Training Center Elizabeth City, NC. The references used to develop are listed below:

- Air Operation Manual, COMDTINST M3710.D
 - Management and Administration of Aviation Incentive Pays, COMDTINST 7220.39 (series).
 - Personnel Manual, COMDTINST M1000.6 (series)
 - Personal Pay Procedures Manual, PPCINST M1000.2 (series).
 - Medical Manual COMDTINST M6000.1 (series)
 - Coast Guard Uniform Regulations Manual, COMDTINST M1020.6 (series).
 - Qualification Codes Section, Enlisted Ratings Qualifications Manual, COMDTINST M1414.8 (series), and Volume II of PMIS/JUMPS Manual, COMDTINST M1080.9 (series).
 - Medal and Awards Manual, COMDTINST M1650.25.
 - Aircrew Primer (ATTC web-site)
 - Aircrew Survival (ATTC web-site)
-

Notice to Student

How to Proceed Incorporated within this syllabus are the basic guidelines for the prospective Aviation Mission Specialist in regards to getting a qualification. This pamphlet is divided into various sections which incorporate both common and aircraft specific syllabi along with the basic knowledge required for qualification. This syllabus is part of a series of syllabi you must complete to get qualified. Your commanding officer and the air station you are attached to will provide the specific courses and syllabuses for your qualification.

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Aviation Mission Specialist Syllabus

Forward	Successful missions are accomplished through the coordination of skills between the pilots, aircrew, and Aviation Mission Specialist (AMS). As an Aviation Mission Specialist you must have a safe working knowledge of not just your equipment, but the aircraft you fly in as well. You must be familiar with and proficient in, the professional skills, techniques, and procedures used in the many diverse missions of Coast Guard aviation.
Goal of AMS Syllabus	The goal of this program is to provide proficient, safe, and standard Aviation Mission Specialists (AMS).
Syllabus Management	This syllabus was developed and will be maintained by the Aviation Technical Training Center (ATTC) Aviation Rating Non-Resident Course Developers in Elizabeth City, NC are responsible for the maintenance of this syllabus. Commanding Officers may supplement this syllabus, as required, based on local mission requirements and operational limitation.
Questions and Comments	Any questions or comments regarding this syllabus should be addressed to the Aviation Rating Non-Resident developers at ATTC (252)-335-6856 or the Aviation Aircrew Force Manager at Headquarters (202)-267-0647.
Where Task Descriptions are Found	<p>Syllabus task descriptions are found in the following publications:</p> <ul style="list-style-type: none">• Applicable aircraft flight manuals• Aircrew Survival• Applicable Mission Specialty Syllabus (i.e. Ice Observer, Systems Operator, Flight Corpsmen).
Aviation Mission Specialist Syllabus	The Aviation Mission Specialist Syllabus can be printed in the PDF format from the Aviation Technical Training Centers WEB site at: http://cgweb.arsc.uscg.mil/attc/
Air Operations Manual	The Air Operations Manual COMDTINST M3710.1 (series) is used by all Coast Guard Air Stations as their primary manual for operations as well as aircrew training. You should become familiar with this manual and its contents throughout your training and your flying career.

Qualification Requirements

Purpose	Aviation missions and associated hardware are becoming more complex requiring specialized skills for operation therefore, highly trained system operators are needed. The Aviation Mission Specialist will be trained to operate the systems onboard Coast Guard aircraft.
Command Approval	Route a chit through your command requesting training as an Aviation Mission Specialist.
Candidates	<p>Personnel with the following specialized skills are eligible to apply for AMS training:</p> <ul style="list-style-type: none">• Aerial Ice Observer• Sensor and Tactical Operators• Medical Technicians• And others when deemed necessary by the Commandant <p style="text-align: center;"><u>Note:</u></p> <p style="text-align: center;">The Aviation Mission Specialist (AMS) qualification is for non-aviation personnel only.</p>
Authorization	Air Station Commanding Officers will have authorization to determine their staffing level requirements for Aviation Mission Specialists based on training support and unit mission needs. Further details can be found in the Air Operations Manual, COMDTINST M3710.1 (series).
Qualification Codes	Assign and insert the appropriate Coast Guard Qualification Code of “ MS ” in the individual’s service record. Make a Personnel Action entry in accordance with the Qualification Codes Section, Enlisted Ratings Qualifications Manual, COMDTINST M1414.8 (series), and Volume II of PMIS/JUMPS Manual, COMDTINST M1080.9 (series).
Flight Pay Entitlements	For flight pay entitlements and eligibility requirements, refer to the Air Operations Manual COMDTINST M3710.1 (series) Chapter 9 section C.

Authorization of Insignia

Authorization to Wear the Aviation Mission Specialist Insignia

All candidates successfully completing the Aviation Mission Specialist syllabi will be eligible to wear the breast insignia on a temporary basis. The authority to wear this breast insignia will not become permanent until you have accumulated 200 flight hours flying as logged on the Aircraft Flight Record, CG-4733 Part II. Commanding officers will issue the insignia in accordance with the Air Operations Manual, COMDTINST M3710.1 (series) and will be worn as per the Medal and Awards Manual, COMDTINST M1650.25.

Rescinding Mission Specialist Insignia

Designations may be issued or revoked by the commanding officer of an Aviation unit or by the commanding officer of the members unit. Commanding officers may rescind the right to wear the Aviation Mission Specialist Wings when any of the following occurs:

- The commanding officer determines that the individual is no longer professionally qualified and revokes the designation.
 - The individual requests to be permanently removed from flight orders.
-

Aviation Mission Specialist Insignia

The Aviation Mission Specialist Wings will be worn in accordance with the Coast Guard Uniform Regulations Manual, COMDTINST M1020.6 (series).



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Prerequisite Requirements for Qualification

Purpose	The purpose of the Aviation Mission Specialist flight prerequisites is to insure each prospective candidate is mission essential, fully medically and physiologically fit to endure the rigors of flight.
References	<p>All prospective Aviation Mission Specialists (regardless of rank or rating) shall be familiar with the following manuals and must complete applicable prerequisites in accordance with the below references:</p> <ul style="list-style-type: none">• Air Operation Manual, COMDTINST M3710.1 (series)• Management and Administration of Aviation Incentive Pays, COMDTINST 7220.39 (series).• Personnel Manual, COMDTINST M1000.6 (series)• Personal Pay Procedures Manual, PPCINST M1000.2 (series).• Medical Manual COMDTINST M6000.1 (series)• Aircrew Primer (located on the ATTC web-site)• Aircrew Survival (located on the ATTC web-site)• Other directives promulgated by the Commandant (G-OCA)
Flight Physical	All candidates will undergo a Class II Aircrew flight physical in accordance with the Coast Guard Medical Manual COMDTINST M6000.1 (series). This physical shall be signed off by a Military Flight surgeon.
Security Clearance	Due to the mission requirements that are involved with Coast Guard aviation all aircrew members must obtain and hold a Secret clearance in accordance with the Military Security Manual Program, COMDTINST M5520.12B.

Qualification Training Requirements

9D5 Dunker (Rotary-Crews)

All candidates participating in aerial flight involving rotary wing aircraft are required to pass the 9D5 Rotary Wing Underwater Escape Trainer. This training introduces the flight crewmember to escape scenarios that involve an inverted rotary wing aircraft that is underwater. The U.S. Navy provides this training.

SWET (Rotary-Crews)

All candidates participating in aerial flight involving rotary wing aircraft are required to attend the Egress Breathing Device/Shallow Water Egress Training (SWET). This system exposes the air crewmember to the Helo Emergency Egress Device (HEED III). The Coast Guard provides this training at the unit level.

Low Pressure Chamber (Fixed Wing)

All candidates participating in aerial flight involving pressurized aircraft are required to attend Low Pressure Chamber (LPC) training. This trainer simulates flight at 35, 000 feet allowing student to experience the high altitude/low pressure effects of hypoxia. The U.S. Air Force provides this training.

General Training Requirements for all Aircrew

All aircrew members flying in Coast Guard aircraft will attend the following training in accordance with the Air Operation Manual COMDTINST M3710.1 (series):

- Swim Test
 - Wet Drills
 - Emergency Ground Egress
 - SAR Equipment and Pyrotechnics
 - OPSEC/COMSEC
 - Crew Resource Management (CRM)
-

Continued Next Page

Qualification Training Requirements, Continued

Specialty Syllabus

The specialty non-aviation syllabi listed below are for unique qualifications and must also be completed in accordance with unit training policies. They are available from your units Training Officer or the Rating Force Manager:

- Aerial Ice Observer
 - Sensor and Tactical Operators
 - Medical Technicians
 - And others when deemed necessary by the Commandant
-

Minimum Recurrent Training Requirements

Minimum recurrent training requirements represent the minimum recurrent flight and ground training necessary to maintain proficiency. These requirements apply to all crewmembers assigned to flight status regardless of designation. All recurrent training will be done in accordance with the Air Operations Manual COMDTINST M3710.1 (series) Chapter 8-17, table 8-2.

Qualification/ Designation Lapse

When the minimum qualifications in the COMDTINST M3710.1 (series) chapter 8 have not been met, the designation lapse and requalification must take place as prescribed in Section “C” of chapter 8. Designations also lapse upon PCS transfer. The commanding officer of the gaining unit may accept prior qualification designations that are current without requalification.

Performance Levels

Introduction

The required level of performance (S,I,P,D) is shown in the syllabus for each task. A qualified aircrew member must supervise you at all times. When you have completed this syllabus to the level indicated, the instructor will sign off the appropriate block.

The CG Performance “Standard”

The grade received for each task is based upon proficiency in accomplishing the task relative to the Coast Guard’s “Standard” performance. The “Standard” or ability to perform the task does not change with the designation held or sought.

Levels of Performance

The table below lists descriptions of each level of performance for qualification requirements.

Performance Level	Description of Performance Level
Standard (S)	The trainee performed the task properly, accurately, and with complete regard for safety. The task was performed without hesitation and with few minor errors. The trainee must be able to maintain this proficiency without further instruction.
Demonstrated (D)	As demonstrated by an instructor. Used to introduce a task to the trainee through demonstration.
Practiced (P)	Means that the student has been pre briefed and has practiced the task.
Intermediate Level (I)	The trainee demonstrated a thorough understanding of the mechanics, techniques, and procedures involved in the task. The task was performed with no critical errors, but errors kept the trainee from achieving the “Standard” performance level.

Syllabus Comments

Purpose

The comments are intended to provide an accurate, fair, complete, and consistent summary of each training session. The comments should provide sufficient detail to be useful to the trainee and other instructors. See example 2 on page 12.

Areas Addressed

The following is a list of areas addressed in this syllabus:

1. The specific task performance evaluation (grades)
 2. Headwork/Judgment
 3. Systems knowledge
 4. Procedural knowledge
 5. Motor skills
 6. Flight Mechanic duties
 7. Crew coordination
 8. Attitude, Professionalism, and Motivation
 9. Recommendations to the Trainee (techniques, areas to study, etc..)
 10. Recommendations for additional training or syllabus reduction due to superior performance.
-

Guidelines

Guidelines are as follows:

1. Specific comments for Level “P” and “I” performance by a trainee during initial or upgrade qualification are not required, but may be given. However, appropriate discussion items on progress should be included for each training evaluation.
 2. Comments are required for any performance tasks that are below a level that has already been achieved for that task. Comments need to be specific in identifying the problem area.
 3. Anything noticeable, which indicates a need for improvement either in general, or specific maneuvers.
 4. All level “P” and “I” performance for an item, which requires an “S” on all end-of-syllabus evaluations should be accompanied by a detailed description of the performance.
-

Glossary of Terms

Critical Errors	Any errors, which could jeopardize the flight or the successful completion of a task.
Minor Errors	Errors, which detract from the standard but in no way, jeopardize the flight or successful completion of a task.
Task	The maneuver or activity to be performed, e.g. boat hoist.
Understand	The trainee understands the intended meaning and can apply basic reasoning when discussing the topic.

Syllabus Sign-Off Procedures

Introduction The following procedures will explain how the Aviation Mission Specialist syllabus is to be properly signed off for completion and the definitions required for such sign-offs.

Required Level The level at which the item shall be performed before completion of the task.

Training Evolution Three training sessions (or flights) are listed in the syllabus. This is used in case the trainee does not complete the assigned task to the required level.

X This is used whenever the item was not successfully completed during the training evolution.

N This letter is used whenever the item was not attempted during the training mission.

Initials Instructors shall place their initials in this space indicating task has been accomplished.

Example 1 Example of a sign-off table:

REQUIRED LEVEL	TRAINING EVOLUTION			Initials
	1	2	3	
[S]	S			SPZ
[S]	X	S		RUN
[P]	P			SPZ
[P]	D	P		RUN
[I]	P	I		RUN
[I]	I			RUN
[D]	D			NNF
[S]	N	X	S	JJK
[S]	N	D	S	SPZ
[S]	S			SPZ

Continued on next page

Syllabus Sign-Off Procedures, Continued

Training Evolution 1 (See example 1)

In the first training evolution, there are items accomplished by the trainee to the required level indicated by the appropriate letter designation i.e. [S]. If the trainee fails to complete the task to the satisfaction of the instructor, then the letter [X] would be filled in the block, but the instructor is required to put a notation in the "Comments" section stating the reason for the failure. The letter "N" designates that the training was not given.

Training Evolution 2 (See example 1)

In the second training evolution, there are tasks completed to their required level and appropriate letter designation. Only those items that fail to meet the required level in the first evolution need to be evaluated and initialed. If there is still one task not attempted in this evolution, the letter "X" is used to show that this item was not done during this evolution, and will be required on the next training flight.

Training Evolution 3 (See example 1)

In the third training evolution, the final item is completed and the appropriate letter designation entered in the block. Completing this, the trainee is allowed to continue to the next portion of the syllabus.

Comment Section

The comment section is used to note specific areas needing improvement. Those areas are given direct attention during the next training evolution.

Example 2

Example of a sign-off block with comment:

REQUIRED LEVEL	TRAINING EVOLUTION			Initials
	1	2	3	
[S]	X	D	S	RUN
[P]	P			SPZ
[P]	D	P		RUN
[I]	P	I		RUN

X	D	S	RUN
P			SPZ
D	P		RUN
P	I		RUN

Instructor Initials: SPZ Instructor Signature/Date: Scott P. Zoomhand/29Aug2003

(Required)

(Required)

Comments: Excellent job by PO Gooblotz. All operations completed I.A.W. Dash 1 procedure. Recommend PO Gooblotz continue on to next section.

Common Ground Syllabus Terminology Familiarization

Introduction

This section of the syllabus is common to all of the Coast Guard aircraft and Air Stations in our inventory today. We will introduce the student to some of the common terminology used at all Air Stations (AIRSTA).

Protective Clothing

All air crewmembers will be issued the minimum protective clothing required for the type of aircraft you are being assigned to. It is the member's responsibility to maintain and care for these articles in accordance with the Aviation Life Support Systems Manual, COMDTINST M13520.1 (series). This equipment issued to you shall be logged on the Flight Gear Issue Form, CG-538. All protective clothing shall be worn in accordance with the COMDTINST M3710.1 (series) Chapter 7.

Air Operations

The Air Operations Center (AIROPS) is where the tasking for the mission comes from. All mission flight scheduling, training flight scheduling, and mission requirements originate from this office. All requests for training flights should be directed through this office. Listed below are the standard offices within the department and their common short title:

- Operations Officer (OPS)
 - Training Officer (TO)
 - Schedules Officer
 - Flight Services Officer (FSO)
 - Communications Officer (COMMS)
 - Navigation Officer (NAV)
 - Public Information Officer (PIO)
-

Continued on next page

Common Ground Syllabus Terminology Familiarization, Continued

Maintenance Control

Maintenance Control is where all flights are assigned aircraft. Maintenance Control is in charge of all aspects of aircraft maintenance, fueling, flight crew scheduling, loading/unloading, and ground support equipment. This is where you go to get on your flight.

Standard Offices

Listed below are the standard offices and their common short title:

- Engineering Officer (EO)
 - Assistant Engineering Officer (AEO) (sometimes separated by title at larger units as the Rotary Wing and Fixed Wing Officers)
 - Quality Assurance Officer
 - Aviation Maintenance Officer (AMO)
 - Maintenance Control Chief
 - Line Crew Supervisor
-

CG-4377 part II

The CG-4377 part II is a multi part form used in the aviation field to record flight time, crew/passenger names, and flight generated maintenance discrepancies. To ensure that you always have the latest information, make a photocopy of the CG-4377 part II form after each flight and maintain it as part of your flight log.

Characteristics of the CG-4377, Part II

Following is a list of characteristics of the CG-4377 form,

- For the trainee, it is the most important part of the CG-4377
- Known as the “Blue Sheet,” Part II is the official record of your flight
- Contains your flight time, crew position, and any information about your training that you will need to get qualified.
- Used as the sole source of proof to calculate your flight time
- Kept at the unit for seven years.

Note

More detailed information can be found in the M3710.1 (series) chapter 9, section E.

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Common Ground Syllabus Terminology Familiarization, Continued

Minimum Recurrent Training Requirements

The minimum recurrent training requirements represent the minimum recurrent flight and ground training necessary to maintain proficiency. Further details can be found in COMDTINST M3710.1 (series) Chapter 8 Section D.

Note:

These requirements apply to all crewmembers assigned to flight status regardless of designation.

Aircrew Survival Training Syllabus

Introduction

In this section the student will attend the required aircrew training in accordance with the Air Operations Manual COMDTINST M3710.1 (series) chapter 8. You need only to complete the section pertaining to the type of aircraft in which you are assigned. The syllabus provided is based on the minimum standards required. Do to specific and unique operational needs of each CGAS, the Commanding officer has the authority to add to this syllabus as required.

Note:

The following general requirements must be completed prior to commencing the flight portion of any designation syllabus as per Section I.4 of the COMDTINST M3710.1 (series)

Refusal to Participate

Refusal to participate in or complete any of the water survival training requirements is sufficient cause for removal from flight status. The commanding officer shall submit a letter report regarding the member's refusal, removal from flight status, and termination of designation in accordance with the provisions of the Personnel Manual, with a copy to Commandant (G-OCA).

Failure to Complete the Required Training

Failure to complete the required training will be specifically addressed in the Air Operations Manual COMDTINST M3710.1 (series) Chapter 8.

Aircrew Primer

The Aircrew Primer is a pamphlet designed to familiarize all new aircrewmen in basic Coast Guard aircraft operations, missions

Aircrew Survival

The Aircrew Survival pamphlet is designed to familiarize all aircrew in the basic survival skills necessary

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Aircrew Survival Training Syllabus, Continued


Rotary Wing Aircrew Survival

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (standard) is required.

b. ROTARY WING AIRCREW SURVIVAL

	REQUIRED LEVEL	TRAINING EVOLUTION			
		1	2	3	Initials
A. Rotary Wing Aircrew					
1. Water Survival and Swim Test	[S]				
2. Land Survival	[S]				
3. SWET	[S]				
4. 9D5/9U44	[S]				
5. Unit specific OPSEC/COMSEC training	[S]				
6. First Aid/CPR training	[S]				
7. Crew Resource Management	[S]				
8. Aircrew Primer pamphlet read. (On-line ATTC)	[S]				
9. Aircrew Survival pamphlet read. (On-line ATTC)	[S]				

Rotary Wing Aircrew Survival Instructor Comments

Instructor Initials: _____ **Instructor Signature/Date:** _____ 
(Required) (Required)

Comments:

Continued on next page

Aircrew Survival Training Syllabus, Continued


Fixed Wing Aircrew Survival

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (standard) is required.

b. FIXED WING AIRCREW SURVIVAL

	REQUIRED LEVEL	TRAINING EVOLUTION			
		1	2	3	Initials
A. Fixed Wing Aircrew					
1. Water Survival and Swim Test	[S]				
2. Land Survival	[S]				
3. Low Altitude Pressure Chamber	[S]				
4. Unit specific OPSEC/COMSEC training	[S]				
5. First Aid/CPR training	[S]				
6. Crew Resource Management	[S]				
7. Aircrew Primer pamphlet read. (On-line ATTC)	[S]				
8. Aircrew Survival pamphlet read. (On-line ATTC)	[S]				

Fixed Wing Aircrew Survival Instructor Comments

Instructor Initials: _____ **Instructor Signature/Date:** _____ 
 (Required) (Required)

Comments:

Rotary Wing AMS Ground Syllabus

Ground 1

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (standard) is required.

b. ROTARY WING GROUND SUPPORT

		TRAINING EVOLUTION			
		REQUIRED LEVEL	1	2	3 Initials
A. Ground Support Equipment					
1. Electrical Power Cart					
a. Operate power cart	[S]				
b. Operate cockpit controls for operation of:					
c. AC electrical power	[S]				
d. DC electrical power	[S]				
2. External Cooling Unit					
a. Operate the cooling unit	[S]				
3. Fueling Operations					
a. Properly ground the aircraft	[S]				
b. Perform duties as a fire guard	[S]				

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

Ground 2

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (standard) is required.

II. ROTARY WING GROUND SUPPORT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
1. Rotary Wing Securing					
a. Demonstrate parking	[S]				
b. Demonstrate securing	[S]				
c. Install the following:					
1. Chocks	[S]				
2. Ground wire	[S]				
3. Static port plugs	[S]				
4. Pitot covers	[S]				
5. Blade tip covers	[S]				
6. Engine inlet covers	[S]				
7. Engine exhaust covers	[S]				
8. Landing gear down locks	[S]				
9. Aircraft tie downs	[S]				
2. Rotary Wing Towing					
a. Operate tow bar	[S]				
b. Perform duties as wing walker	[S]				
c. Perform duties as brake rider	[S]				

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

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Rotary Wing AMS Ground Syllabus, Continued

Ground 3

The trainee will accomplish the following under the guidance of an instructor. Level [S] (Standard) is required.

III. GROUND AND IN-FLIGHT EMERGENCIES

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. State the proper emergency procedures for the following ground and in-flight emergencies					
1. Fire/Overheat	[S]				
a. Engine compartment fire	[S]				
b. Main Gearbox	[S]				
c. Electrical	[S]				
d. Avionics rack	[S]				
e. Cabin fire	[S]				
f. Battery overtemp/thermal runaway	[S]				
2. Smoke and fume elimination	[S]				
3. Landing gear malfunction	[S]				
4. Audio system failure	[S]				
5. Ditching	[S]				
6. Jammed sliding door open	[S]				
7. Emergency egress from all crew seats	[S]				

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Rotary Wing AMS Ground Syllabus, Continued

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

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Rotary Wing AMS Ground Syllabus, Continued

Ground 4

The trainee will accomplish the following under the guidance of an instructor. Level [S] (Standard) is required.

IV. COMMUNICATIONS

	REQUIRED LEVEL	TRAINING EVOLUTION			
		1	2	3	Initials
A. Internal Communications System					
1. Explain proper circuit procedures/discipline	[S]				
2. Locate hoist operators audio control panel	[S]				
3. Operate ICS from all crew positions	[S]				
Radio Communications					
1. State proper position and flight operations report	[S]				
2. State Mayday Procedure	[S]				
3. Specific Unit Comms. Requirements.	[]				
a. _____	[]				
b. _____	[]				

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

Ground 5

The trainee will accomplish the following under the guidance of an instructor. Level [S] (Standard) is required.

V. SAR AND SURVIVAL EQUIPMENT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Locate and explain the use of the following SAR/Survival equipment:					
1. Life raft package	[S]				
2. Float Lights	[S]				
3. Flash Lights	[S]				
4. Knife	[S]				
5. Gunners Belts	[S]				
6. Cable Cutters	[S]				
7. Shroud Cutters	[S]				
8. Blankets Space/Wool	[S]				
9. Message Blocks	[S]				
10. Trail Lines	[S]				
11. Weight Bags	[S]				
12. Boom Crank	[S]				
13. Sea Dye Markers	[S]				
14. Rescue Basket	[S]				
15. Rescue Sling	[S]				
16. Rescue Litter	[S]				
17. Quick Strop	[S]				
18. Survival Vest	[S]				
19. First Aid Kits	[S]				
20. Datum Marker Buoy (DMB)	[S]				
21. ALDIS Lamp	[S]				
22. Crash Axes	[S]				
23. Fire Extinguisher	[S]				
24. MK-25 Marine Location Marker	[S]				
25. Cargo Tie Downs	[S]				

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Rotary Wing AMS Ground Syllabus, Continued

**Ground 5
(continued)**

V. SAR AND SURVIVAL EQUIPMENT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Locate and explain the use of the following SAR/Survival equipment:					
26. Camera	[S]				
27. Emergency Locator Transmitter (ELT)	[S]				
a. Purpose	[S]				
b. Frequency	[S]				
c. Operation	[S]				
28. Searchlight	[S]				
29. Night Vision Goggles	[S]				
30. Survival suit	[S]				
31. SPH-SCG-Helmet	[S]				
B. Other equipment used due to unit operational needs					
1. _____	[S]				
2. _____	[S]				
3. _____	[S]				
4. _____	[S]				
5. _____	[S]				
6. _____	[S]				

Continued on next page

Rotary Wing AMS Ground Syllabus, Continued

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)

Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)

Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)

Comments:

Instructor Signature/Date: _____ 
(Required)

Rotary Wing AMS Flight Syllabus

Introduction

Flight preparation is designed to familiarize you with the various procedures you will accomplish before the flight. This flight preparation section must be accomplished before you can fly.

Note:

All Rotary Wing AMS Ground Syllabuses must be complete before you can enter the flight syllabus.

Flight Preparation

The trainee will be instructed in the following tasks under the guidance of an instructor. Level [D] (Demonstrated) is required.

I. FLIGHT PREPARATION

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Before Flight					
1. Review CG-4377	[D]				
2. Review CG-5181	[D]				
3. Perform your specialty pre-flight	[D]				
4. State in-flight emergency procedures (see Ground 4)	[D]				
5. State fire guard procedures	[D]				
6. Aircrew safety checks	[D]				
7. Perform walk around	[D]				
8. Perform specialty equipment pre-flight as per your (MST/SenOp/MedTech) syllabus	[D]				
9. Approaching running Rotary Wing	[D]				
10. Embarking Rotary Wing	[D]				
11. Disembarking Rotary Wing	[D]				
12. Air traffic scanning	[D]				
13. SAR scanning techniques	[D]				
14. Dash -1 Emergency procedures	[D]				

Continued on next page

Rotary Wing AMS Flight Syllabus, Continued

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____

(Required)

Instructor Signature/Date: _____ 

(Required)

Comments:

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____

(Required)

Instructor Signature/Date: _____ 

(Required)

Comments:

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____

(Required)

Instructor Signature/Date: _____ 

(Required)

Comments:

Continued on next page

Rotary Wing AMS Flight Syllabus, Continued

Flight 1

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (Standard) is required unless otherwise noted.

I. FLIGHT 1

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Pre Flight					
1. Review CG-4377	[S]				
2. Review CG-5181	[S]				
3. Perform your specialty pre-flight	[S]				
4. State in-flight emergency procedures	[S]				
5. State fire guard procedures	[S]				
6. Aircrew safety checks	[S]				
7. Perform walk around	[S]				
8. Participate in mission brief	[S]				
9. Complete your AMS specialty pre-flight	[S]				
B. Flight					
1. ICS coordination	[S]				
2. Air traffic scanning	[S]				
3. SAR scanning techniques	[S]				
4. Dash –1 Emergency procedures	[S]				
5. Perform Thru-Flight on specialty equipment	[S]				
6. Perform Post- Flight on specialty equipment	[S]				

Continued on next page

Rotary Wing AMS Flight Syllabus, Continued

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Fixed Wing AMS Ground Syllabus

Ground 1

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (Standard) is required unless otherwise noted.

I. FIXED WING GROUND SUPPORT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Ground Support Equipment					
1. Electrical power cart					
a. Operate power cart	[S]				
b. Operate cockpit controls for operation of:	[S]				
c. AC electrical power	[S]				
d. DC electrical power	[S]				
3. External cooling unit					
a. Operate the cooling unit	[S]				
4. Fueling operations					
a. Properly ground the aircraft	[S]				
b. Perform duties as a fire guard	[S]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

Ground 2

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (standard) is required.

II. FIXED WING GROUND SUPPORT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
1. Aircraft Securing					
a. Demonstrate parking	[S]				
b. Demonstrate securing	[S]				
c. Install the following:					
1. Chocks	[S]				
2. Ground wire	[S]				
3. Static port plugs	[S]				
4. Pitot covers	[S]				
5. Engine inlet covers	[S]				
6. Engine exhaust covers	[S]				
2. Aircraft Towing					
a. Disengage nose gear steering scissors	[S]				
b. Operate tow bar	[S]				
c. Perform duties as wing walker	[S]				
d. Perform duties as brake rider	[S]				
e. Perform duties as a hand pump operator (C-130)	[S]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 2
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

Ground 3

The trainee will accomplish the following under the guidance of an instructor. Level [S] (Standard) is required.

III. GROUND AND IN-FLIGHT EMERGENCIES

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. State the proper emergency procedures for the following ground and in-flight emergencies					
1. Fire/Overheat					
a. Engine fire	[S]				
b. Electrical	[S]				
c. Avionics rack	[S]				
d. Cabin fire	[S]				
e. Battery overtemp/thermal runaway	[S]				
2. Smoke and fume elimination	[S]				
3. Landing gear malfunction	[S]				
4. ICS failure	[S]				
5. Ditching	[S]				
6. Operation and location of escape hatches/doors	[S]				
7. Emergency egress from all crew seats	[S]				
8. Sudden loss of pressurization	[S]				
9. O ₂ supply	[S]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 3
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

Ground 4

The trainee will accomplish the following under the guidance of an instructor.
Level [S] (Standard) is required.

IV. COMMUNICATIONS

	REQUIRED LEVEL	TRAINING EVOLUTION			
		1	2	3	Initials
A. Internal Communications System					
1. Explain proper circuit procedures/discipline	[S]				
2. Operate ICS from all crew positions	[S]				
3. Operate ICS with O2 mask system	[S]				
Radio Communications					
1. State proper position and flight operations report	[S]				
2. State Mayday Procedure	[S]				
3. Specific Unit Comms. Requirements.	[]				
a. _____	[]				
b. _____	[]				
c. _____	[]				
d. _____	[]				
e. _____	[]				
f. _____	[]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 4
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

Ground 5

The trainee will accomplish the following under the guidance of an instructor. Level [S] (Standard) is required.

V. SAR AND SURVIVAL EQUIPMENT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Locate and explain the use of the following SAR/Survival equipment:					
1. Life raft package	[S]				
2. Float Lights	[S]				
3. Flash Lights	[S]				
4. Knife	[S]				
5. Gunners Belts	[S]				
6. Blankets Space/Wool	[S]				
7. Message Blocks	[S]				
8. Survival Vest	[S]				
9. First Aid Kits	[S]				
10. Datum Marker Buoy (DMB)	[S]				
11. Crash Axes	[S]				
12. Fire Extinguisher	[S]				
13. MK-25/58 Marine Location Marker	[S]				
14. O ₂ System					
a. Location of components	[S]				
b. Operation of regulator	[S]				
c. Safety precautions	[S]				
d. Walk around bottle	[S]				
15. EROS (if installed)					
a. Test	[S]				
b. Quick donning	[S]				
c. Normal	[S]				
d. Emergency use	[S]				
e. Re-stowage	[S]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

Ground 5 (continued)

The trainee will accomplish the following under the guidance of an instructor.
Level [S] (Standard) is required.

V. SAR AND SURVIVAL EQUIPMENT

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
Continued					
16. Smoke goggles operation	[S]				
17. Drop down masks (HU-25)	[D]				
18. Emergency Locator Transmitter (ELT)	[S]				
a. Purpose	[S]				
b. Frequency	[S]				
c. Operation	[S]				
d. Location	[S]				
19. F-2B Wing Raft (HC-130)	[S]				
20. LRU-20 (HU-25)	[S]				
B. Other equipment used due to operational needs					
1. _____	[]				
2. _____	[]				
3. _____	[]				
4. _____	[]				
5. _____	[]				
6. _____	[]				
7. _____	[]				

Continued on next page

Fixed Wing AMS Ground Syllabus, Continued

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Ground 5
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Fixed Wing AMS Flight Syllabus

Introduction

Flight preparation is designed to familiarize you with the various procedures you will accomplish before flight. This flight preparation section must be accomplished before you can fly.

Note:

All AMS Fixed Wing syllabuses must be complete before you can enter the flight syllabus.

Flight Preparation

The trainee will be instructed in the following tasks under the guidance of an instructor. Level [D] (Demonstrated) is required.

I. FLIGHT PREPERATION

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Before Flight					
1. Review CG-4377	[D]				
2. Review CG-5181	[D]				
3. Perform your specialty pre-flight	[D]				
4. State in-flight emergency procedures (see Ground 4)	[D]				
5. State fire guard procedures	[D]				
6. Aircrew safety checks	[D]				
7. Perform walk around	[D]				
8. Perform specialty equipment pre-flight as per your (MST/SenOp/MedTech) syllabus	[D]				
9. Approaching running aircraft	[D]				
10. Embarking aircraft	[D]				
11. Disembarking aircraft	[D]				
12. Air traffic scanning	[D]				
13. SAR scanning techniques	[D]				
14. Dash -1 Emergency procedures	[D]				

Continued on next page

Fixed Wing AMS Flight Syllabus, Continued

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____
(Required)

Instructor Signature/Date: _____ 
(Required)

Comments:

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____
(Required)

Instructor Signature/Date: _____ 
(Required)

Comments:

**Flight
Preparation
Instructor
Comments**

Instructor Initials: _____
(Required)

Instructor Signature/Date: _____ 
(Required)

Comments:

Continued on next page

Fixed Wing AMS Flight Syllabus, Continued

Flight 1

The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (Standard) is required unless otherwise noted.

I. FLIGHT 1

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Pre Flight					
1. Review CG-4377	[S]				
2. Review CG-5181	[S]				
3. Perform your specialty pre-flight	[S]				
4. State in-flight emergency procedures	[S]				
5. State fire guard procedures	[S]				
6. Aircrew safety checks	[S]				
7. Perform walk around	[S]				
8. Participate in mission brief	[S]				
9. Complete your AMS specialty pre-flight	[S]				
B. Flight					
1. ICS coordination	[S]				
2. Air traffic scanning	[S]				
3. SAR scanning techniques	[S]				
4. Dash -1 Emergency procedures	[S]				
5. Perform Thru-Flight on specialty equipment	[S]				
6. Perform Post- Flight on specialty equipment	[S]				

Continued on next page

Fixed Wing AMS Flight Syllabus, Continued

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

**Flight 1
Instructor
Comments**

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

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AMS Air Station Final Syllabus Approval

Introduction

The AMS Final Syllabus Approval will indicate that the member has completed the required tasks necessary for the specific aircraft type which the member is getting qualified in (Rotary/Fixed Wing) and all of the required sign-offs are completed to the required skill/knowledge level to the standard indicated.

Note:

This syllabus must be accompanied with the specific specialty syllabus, which is provided by your parent command.

Specialty Syllabus

The Specialty Syllabus for the qualification you are obtaining *must be* attached to this syllabus for final signatures. Please attach one of the following to this page:

- Aerial Ice Observer
 - Sensor and Tactical Operators
 - Medical Technicians
 - And others when deemed necessary by the Commandant
-

Continued on next page

AMS Air Station Final Syllabus Approval, Continued

**Student
Information****Name:** _____**Rank:** _____**SSN/EMPID:** _____**Home Unit:** _____**AIRSTA:** _____

**Sign-Off No.1
Flight
Examining
Board**

The Air Stations Flight Examining Board (FEB) members are to review and verify that the AMS Syllabus has been completed IAW the COMDTINST M3710.1 (series), this syllabus, and the specific units needs and policies. It is the FEB's (Officer/Enlisted) duty to ensure that this syllabus is completed in the spirit that it was intended.

Date Completed: _____ **FEB Approval:** _____

**Sign-Off No.2
AIRSTA
Operations
Officer**

The AIRSTA Operations Officer shall ensure that this syllabus has been completed IAW this syllabus, specific AIRSTA needs, and the COMDTINST M3710.1 (series).

Date Completed: _____ **Ops Approval:** _____

**Sign-Off No.3
AIRSTA
Commanding
Officer**

This syllabus has been complete IAW COMDTINST M3710.1 (series) and member is hereby qualified as an Aviation Mission Specialist.

Date Completed: _____ **CO Approval:** _____

Flight Syllabus Continuation Sheet

Flight Continuation

Print on demand

This continuation sheet is provided for the training unit, as a record keeping device in the event the CGAS requires more flights. The trainee will accomplish the following tasks under the guidance of an instructor. Level [S] (Standard) is required unless otherwise noted.

FLIGHT Number: _____

		TRAINING EVOLUTION			
	REQUIRED LEVEL	1	2	3	Initials
A. Pre Flight					
1. Review CG-4377	[S]				
2. Review CG-5181	[S]				
3. Perform your specialty pre-flight	[S]				
4. State in-flight emergency procedures	[S]				
5. State fire guard procedures	[S]				
6. Aircrew safety checks	[S]				
7. Perform walk around	[S]				
8. Participate in mission brief	[S]				
9. Complete your AMS specialty pre-flight	[S]				
B. Flight					
1. ICS coordination	[S]				
2. Air traffic scanning	[S]				
3. SAR scanning techniques	[S]				
4. Dash-1 Emergency procedures	[S]				
5. Perform Thru-Flight on specialty equipment	[S]				
6. Perform Post- Flight on specialty equipment	[S]				

Sheet _____ of _____

Continued on next page

Flight Syllabus Continuation Sheet

Flight ____
Instructor
Comments

Instructor Initials: _____
(Required)
Comments:

Print on demand

Instructor Signature/Date: _____ 
(Required)

Flight ____
Instructor
Comments

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Flight ____
Instructor
Comments

Instructor Initials: _____
(Required)
Comments:

Instructor Signature/Date: _____ 
(Required)

Sheet ____ of ____